

What is claimed is:

1. A device for transmitting torque from a pulley to a hub of an assembly to be driven, in particular an air conditioning compressor of a motor vehicle, with at least one vibration-damping element located between the pulley and the hub,  
wherein  
the vibration-damping element (12) is rigidly connected at its inner circumference with the hub (10) and is engaged at its outer circumference with the pulley (6).
2. The device as recited in Claim 1,  
wherein  
the vibration-damping element (12) is composed of an elastomer material.
3. The device as recited in Claim 2,  
wherein  
the vibration-damping element (12) is vulcanized to the hub (10).
4. The device as recited in Claim 2 or 3,  
wherein,  
during assembly, it is possible to engage the hub (10), with the vibration-damping element (12), and the pulley (6) using an axial relative motion.
5. The device as recited in Claim 2,  
wherein  
the vibration-damping element (12) is detachably engaged with the pulley (6).
6. The device as recited in one of the preceding Claims,  
wherein  
the pulley (6) is composed of a plastic material.
7. The device as recited in one of the preceding Claims,  
wherein  
the vibration-damping element (12) is designed essentially annular in shape.
8. The device as recited in one of the preceding Claims,

wherein

the vibration-damping element (12) has an outer toothing that is engaged with an inner toothing on the pulley (6).

9. The device as recited in Claim 8,

wherein

the teeth (18) of the inner toothing of the pulley (6) and the teeth (32) of the outer toothing of the vibration-damping element (12) have tooth flanks (34) that bear against each other without play.

10. The device as recited in Claim 8 or 9,

wherein

diametrically opposed tooth flanks (34) of adjacent teeth (18) in the inner toothing of the pulley (6) and opposed tooth flanks (34) of teeth (32) in the outer toothing of the vibration-damping element (12) form an angle that is less than 90 degrees and is preferably approximately 30 degrees.

11. The device as recited in one of the Claims 8 through 10,

wherein

a tooth height of teeth (18) of the inner toothing of the pulley (6) is greater in every operating state than the tooth height of teeth (32) of the outer toothing of the vibration-damping element (12).

12. The device as recited in one of the Claims 8 through 11,

wherein

a tooth width of teeth (18) of the inner toothing of the pulley (6) is less than a tooth width of teeth (32) of the outer toothing of the vibration-damping element (12).

13. The device as recited in one of the Claims 8 through 12,

wherein

the vibration-damping element (12) is located in the region between the hub (10) and the form-fit engagement with the pulley (6) at an axial distance from axially adjacent parts of the pulley (6).

14. The device as recited in one of the preceding Claims,  
wherein  
the hub (10) includes an overload safeguard (26, 28).